BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 5000000.00

Name of Work: Detailed Estimate for the work of Improvements to CC roads and drains in Sanitary core in ward no-04 yelahanka upanagara.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142 , I.No.19.1 of KPWD S.R 2016-17)	Cum.							
	for levelling and lowering		1	75.00	3.30	0.20	49.50		
			1	175.00	3.00	0.20	105.00		
			1	60.00	3.00	0.20	36.00		
	desilting of existing drains		1	25.00	0.45	0.40	4.50		
			1	75.00	0.45	0.40	13.50		
			1	80.00	0.45	0.40	14.40		
			2	25.00	0.45	0.40	9.00		
			2	30.00	0.45	0.40	10.80		
							242.70	86.92	21095.00
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications. specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	cum							
	for RCC drain		1	75.00	1.00	1.00	75.00		
			1	50.00	1.00	1.00	50.00		
	for culvert		4	6.00	1.50	1.30	46.80		
	L shape drain		1	60.00	0.75	0.30	13.50		
							185.30	200.34	37123.00
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
			Vide Item No. 1				428.00	85.65	36657.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.26 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 6%	4.85							
	Total	**85.65**							
4	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156) Item No. 19.60/ PWD SR 2016-17	cum							
			1	75.00	3.30	0.20	49.50		
			1	175.00	3.00	0.20	105.00		
			1	60.00	3.00	0.20	36.00		
							190.50	**320.12**	60982.86
	Basic Rate	302.00							
	Area Weightage @ 6%	18.12							
	Total	**320.12**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. **Providing, laying, spreading and compacting graded stones aggregate to wet mix** macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)	cum							
			1	75.00	3.30	0.15	37.13		
			1	175.00	3.00	0.15	78.75		
			1	60.00	3.00	0.15	27.00		
							142.88	1768.08	**252614.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix **1:3:6 with OPC cement @** 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17	**Cum**							
	for RCC drain		1	75.00	0.90	0.15	10.13		
			1	50.00	0.90	0.15	6.75		
	for cc road		1	75.00	3.30	0.15	37.13		
			1	175.00	3.00	0.15	78.75		
			1	60.00	3.00	0.15	27.00		
	culvert		4	6.00	1.50	0.15	5.40		
			1	60.00	0.75	0.15	6.75		
	for damaged portion		1	43.00	3.00	0.15	19.35		
							191.25	5348.76	1022950.00
	Basic Rate	5046.00							
	Area Weightage @ 6%	302.76							
	Total	**5348.76**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	for rcc drain bed		1	75.00	0.90	0.15	10.13		
	wall	1x2	2	75.00	0.15	0.75	16.88		
			1	50.00	0.90	0.15	6.75		
			2	50.00	0.15	0.75	11.25		
	L shape drain		1	60.00	0.60	0.15	5.40		
			1	60.00	0.15	0.75	6.75		
	for culvert		4	6.00	1.20	0.23	6.62		
			8	6.00	0.23	1.00	11.04		
							74.81	6371.66	476689.00
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	6371.66							
3	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
	for 75 kg/cum		0.750	74.81			56.11		
				74.81			56.11	7067.50	396561.00
	Basic Rate	7067.50							

Sl No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17	sqm							
	for rcc drain	1x4	4	75.00		0.75	225.00		
		1x4	4	50.00		0.75	150.00		
		4x4	16	6.00		1.00	96.00		
		1x2	2	60.00		0.75	90.00		
							561.00	**310.58**	**174235.00**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
10	Providing precast slab of **250 mm thick including cost of all** materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	sqm							
		4x10	40	1.50	0.60		36.00		
							36.00	**5111.00**	**183996.00**
	Data Rate	5111.00							
11	Providing precast slab of **100 mm thick including cost of all** materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	sqm							
			1	75.00	0.90		67.50		
			1	50.00	0.90		45.00		
	missing slabs		1	50.00	0.90		45.00		
							157.50	**2100.00**	**330750.00**
	Data Rate	2100.00							
12	KSRRB M600-6 cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 380kg per cum coarse aggregate @ 0.65cum and fine aggregare @ 0.45cum). No	Cum							

Item No: 22.6.1 Page 177 SR 2016-17 (PWD)

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	75.00	3.30	0.15	37.13		
			1	175.00	3.00	0.15	78.75		
			1	60.00	3.00	0.15	27.00		
	for existing roads		1	40.00	2.50	0.15	15.00		
			1	40.00	3.50	0.15	21.00		
			1	25.00	2.00	0.15	7.50		
			1	38.00	3.00	0.15	17.10		
			1	20.00	3.00	0.10	6.00		
			1	50.00	3.00	0.10	15.00		
			1	150.00	3.00	0.10	45.00		
							269.48	6217.96	1675585.00
	Basic Rate	5866.00							
	Area Weightage @ 6%	351.96							
	Total	6217.96							
13	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift Page No 177 Item No 22.7 SR 2016-17	Sqm							
			1	75.00	3.30		247.50		
			1	175.00	3.00		525.00		
			1	60.00	3.00		180.00		
	existing		1	40.00	2.50		100.00		
			1	40.00	3.50		140.00		
			1	25.00	2.00		50.00		
			1	38.00	3.00		114.00		
			1	20.00	3.00		60.00		
			1	50.00	3.00		150.00		
			1	150.00	3.00		450.00		
							2016.50	95.40	192374.00
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	95.40							
14	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials, Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications do- for concrete pavement Item no 22.8.1 Page No 178 SR 2016-17	Rmt							
	for cc road		25	3.30			82.50		
			78	3.00			234.00		
			20	3.00			60.00		
	existing		16	2.50			40.00		
			12	3.50			42.00		
			13	2.00			26.00		
			13	3.00			39.00		
			7	3.00			21.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			17	3.00			51.00		
			45	3.00			135.00		
							730.50	121.90	89048.00
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	121.90							
15	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. Page No. 28/ Item No. 5.29/ PWD SR 2016-17	Nos							
			1	54.00			54.00		
							54.00		
					0.45		120.00		
							120.00	385.84	46301.00
	Basic Rate	364.00							
	Area Weightage @ 6%	21.84							
	Total	385.84							
17	Miscellaneous charges								3039.14
								Total	5000000.00

(Rupees Fifty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.

Assistant Engineer

Assistant Executive Engineer
Yelahanka new town Sub division.
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakh

Rupees fifty lakhs only

Job code 080-004-18-000003

J.C(4) PAO/AS/52/2017-18.

dated 10-11-2017 50.00 lakh.

Technical Sanction
Accorded For 50.00 lakh Rs.
Head of A/C... P2178
CER NO :... 424 Dt:... 11.12.17

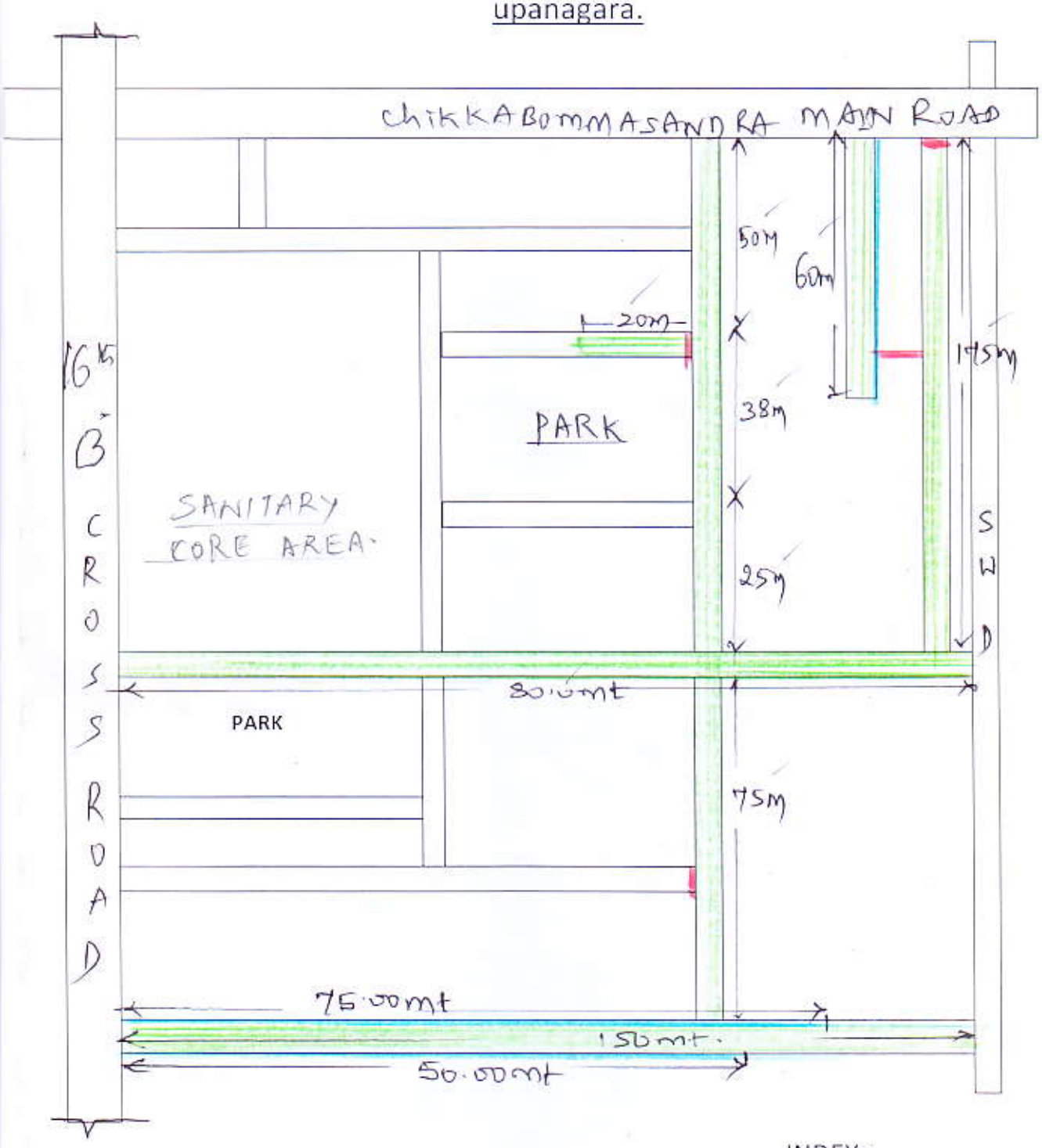
TA CE (YNK)

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

ಜಂಟಿ ಆಯುಕ್ತರು
ಯಲಹಂಕ ವಲಯ,
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬ್ಯಾಟರಾಯನಪುರ, ಬೆಂಗಳೂರು-92

NAME OF WORK:

Improvements to CC roads and drains in Sanitary core in ward no-04 yelahanka upanagara.



INDEX:

CC Road

RC drain

A.E.

A.E.E.

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 4 - YELHANKA SATELLITE TOWN

NOTIFICATION NO. UDD 59 MLR 2009 DATE: 15.07.09

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಡಿ.ಎ.ಐ.ಕ್ಷ. ಬೆಂಗಳೂರು-106